Magnitude of Findings



Theme	Number of Objectives
Demonstrate Deep Space Capabilities	35
Scientific Research	30
Planetary Defense	17
Other	0

Overarching observations

Deep Space Capabilities Theme: Key Observations



Objectives

- Demonstrating a Sustainable Deep Space Transportation Architecture
- Demonstrating Technologies needed for Deep Space Exploration including Radiation Shielding / Hazards, Closed Loop Eclss, Power, ISRU, Microgravity Effects
- Demonstrating Operational Capabilities needed for Deep Space Exploration
- Advancing a Political Agenda
- Investigate/Assess Potential for Commercial Activity
- Understand the Psycho-Social Interactions
- Micro-Meteorite Environment
- Resources
- EPO/Participatory Exploration

Activities

- ISRU Demonstration
- Stay Alive
- Local Decision Making to ensure Tech Demos and demonstrate Autonomous Operations
- Demonstrate Teleoperations
- Public Engagement / PSA
- Vehicle Inspection and Maintenance

Target Characteristics

Good Resource Characteristics (water and metal)

Scientific Research Theme: Key Observations



Objectives

- Sample Return
- Internal Structure Assessment
- Space Environment Assessment
- Total Global Geologic Context (provenance)

Activities

- Emplacement of Instruments on Surface (EG Seismic Net)
- Sampling of Asteroid in various locations
- Tele-robotic Operations
- Geologic Mapping
- Localized Remote Sensing
- Site Selection (fine and gross)

Target Characteristics

- Primitive, Volatile, Rich
- Big
- Slow spin

Planetary Defense Theme: Key Observations



Objectives

- Orbit Dynamics Pre and Post Mitigation Activities
- Composition and Internal Structure
- Experiments for Deflecting NEO
- Telescopic Survey of Population
- Correlate in situ measurements with Earth based Remote Sensing

Activities

- Measure orbit of NEO BEFORE and AFTER Kinetic impact
- Measure Internal Structure
- Measure Effectiveness of Mitigation Strategies
- Public Outreach to Communicate Relevance of Objectives

Target Characteristics

Potentially Hazardous Asteroid



Backup

Parking Lot



Optional chart

Possible Breakout Discussions for Tomorrow



Optional Chart